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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	KET NO. CONFIRMATION NO.		
10/664,824	09/17/2003	Stephen Palm	BP2610	3426		
	7590 12/08/200 RRISON & MARKISO	EXAMINER				
P.O. BOX 1607	27	NGO, NGUYEN HOANG				
AUSTIN, TX 7	8/16-0/2/		ART UNIT	PAPER NUMBER		
			2416			
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			12/08/2008	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Communication		1	Application No. Applicant(s)						
			10/664,824		PALM, STEPHEN				
Office Action Summary			Examiner		Art Unit				
		1	NGUYEN NGO		2416				
 Period for	The MAILING DATE of this commun	nication appea	ars on the cove	r sheet with the c	orrespondence ad	ldress			
WHICH - Extens after S - If NO p - Failure Any re	RTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE N ions of time may be available under the provisions X (6) MONTHS from the mailing date of this comre eriod for reply is specified above, the maximum st to reply within the set or extended period for reply ply received by the Office later than three months patent term adjustment. See 37 CFR 1.704(b).	MAILING DAT s of 37 CFR 1.136(munication. tatutory period will v will, by statute, ca	E OF THIS CO (a). In no event, how apply and will expire ause the application t	OMMUNICATION ever, may a reply be time SIX (6) MONTHS from to become ABANDONEI	I. lely filed the mailing date of this coorsists (35 U.S.C. § 133).				
Status									
1) ∑ F	Responsive to communication(s) file	ed on 26 Sen	tember 2008						
· · · · · · · · · · · · · · · · · · ·	•		ction is non-fin	al.					
′=		<i>,</i> —			secution as to the	e merits is			
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositio	n of Claims								
4)⊠ (Claim(s) <u>1-7</u> is/are pending in the a	oplication.							
·—	4a) Of the above claim(s) is/are withdrawn from consideration.								
	5) Claim(s) is/are allowed.								
•	Claim(s) <u>1-7</u> is/are rejected.								
	Claim(s) is/are objected to.								
•	Claim(s) are subject to restric	ction and/or e	election require	ment.					
Applicatio									
	•	o Evaminor							
9) The specification is objected to by the Examiner.									
-	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority ur	ider 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
2) Notice 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (Fation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	PTO-948)	4)	Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:	te				

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Response to Amendment

This communication is in response to the election of 9/26/2008. Amendments made to the claims have been entered. Accordingly, Claims 1-7 are currently pending in the application.

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 2, 4, 6, 7, are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Regarding claim 2, it is unclear to what is meant by the first signals comprise even numbered carriers eight through thirty less, carriers twelve and fourteen. Similar rationale is applied to claims 4, 6, and 7. Applicant is urged to clarify such matters.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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2. Claims 1, 3, and 5, are rejected under 35 U.S.C. 103(a) as being unpatentable over Long (US 2003/0189952), in view of Helms (US 6678316), hereinafter referred to as Long and Helms.

Regarding claims 1, Long discloses a method for Digital Subscriber Line (DSL) handshaking, the method comprises:

Transmitting, by a remote DSL transceiver [0078], first signals containing even numbered carriers for a predetermined period of time to initiate the DSL handshaking to produce R-ETONES-REQ ([0079] Note: synchronize G.hs handshaking), wherein the first signals include periodic phase reversal ([0005] and [0077]);

Detecting, by a central office DSL transceiver ([0081] Note: HSTU-R), the R-ETONES-REQ to produce detected R-ETONES-REQ [0081];

Determining, by the central office DSL transceiver, alignment of a hyper frame in accordance with a Time Compression Multiplexing-Integrated Service Digital Network (TCM-ISDN) Timing Reference (TTR) [0074];

Transmitting, by the central office DSL transceiver, first response signals containing odd numbered carriers in accordance with the alignment of the hyper frame to produce C-TONES-TTR [0081], wherein the first response signals include periodic phase reversal ([0077]-[0081]);

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Acquiring, by the remote DSL transceiver, TTR synchronization in accordance with the C-TONES-TTR; upon acquiring TTR synchronization, transmitting, by the remote DSL transceiver, second signals containing even numbered carriers to produce • R-TONE-TTR [0082];

In response to the R-TONE-ITR, transmitting, by the central office DSL transceiver, second response signals containing odd numbered carriers to produce C-GALF1-TTR [0083];

In response to the C-GALF1-TTR, transmitting, by the remote DSL transceiver, third signals containing even numbered carriers to produce R-FLAG1-TTR [0083]; and in response to the R-FLAG1-TTR, transmitting, by the central office DSL transceiver, third response signals containing odd numbered carriers to produce C-FLAG1 [0083].

Long shows initializing and response to handshaking in NEXT and FEXT, but do not shows transmitting initializing and response to handshaking in odd and even carriers. Helm however discloses that all odd multiplied carriers be used in the downstream path from the central office and even multiplied carriers be used in the upstream path (or vise versa) and that this even-odd distribution of upstream and downstream frequencies offer advantages (col5 lines 51-66). It would have been obvious to one of ordinary skill

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in the art at the time of the invention to modify the handshaking method of Long with the transmission on odd and even carrier of Helms in order to eliminate near end crosstalk. It should further be noted that the use of even numbered carriers for upstream and odd number carriers for downstream is simply a network parameter.

Regarding claim 3, Long discloses further comprises: subsequent to transmitting the first signals, transmitting, by the remote DSL transceiver, additional first signals from one signaling families to produce R-TONES-REQ [0081].

Regarding claims 5, Long discloses wherein the acquiring, by the remote DSL transceiver, TTR synchronization further comprises: continue transmitting, by the remote DSL transceiver, the R-ETONES-REQ until the TTR synchronization is acquired [0089].

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NGUYEN NGO whose telephone number is (571)272-8398. The examiner can normally be reached on Monday-Friday 7am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Firmin Backer can be reached on (571)272-6703. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nguyen Ngo

United States Patent & Trademark Office Patent Examiner AU 2614 (571) 272-8398 /N. N./ Examiner, Art Unit 2416

/FIRMIN BACKER/ Supervisory Patent Examiner, Art Unit 2416